

IN THE CLAIMS

Please amend the claims as follows, substituting any amended claim(s) for the corresponding pending claim(s):

- 1 1. (Currently Amended) A method to identify a modulation format of a data frame received from a servicing base station by a wireless terminal in a cellular wireless communication system, the method comprises:
 - 4 receiving a first Radio Frequency (RF) burst of the data frame from the servicing base station, wherein the first RF burst carries a plurality of modulated symbols and a burst index;
 - 5 when the burst index of the first RF burst comes within a predetermined index value,
 - 6 extracting a training sequence from the first RF burst, wherein the training sequence ~~comprises modulated symbols~~ includes modulated symbols;
 - 7 processing the training sequence assuming a first modulation format to produce a first channel energy;
 - 11 processing the training sequence assuming a second modulation format to produce a second channel energy;
 - 13 determining a greater channel energy from the first channel energy and the second channel energy;
 - 15 receiving a subsequent RF burst within the data frame from the servicing base station, wherein the subsequent RF burst carries a plurality of modulated symbols and a subsequent burst index;
 - 17 when the subsequent burst index comes within the predetermined index value,
 - 18 processing the training sequence assuming the first modulation format to produce a subsequent first channel energy;
 - 20 accumulating the subsequent first channel energy with the first channel energy to produce an accumulated first channel energy;
 - 22 processing the training sequence assuming the second modulation format to produce a subsequent second channel energy;
 - 24 accumulating the subsequent second channel energy with the second channel energy to produce an accumulated second channel energy;
 - 26 determining a greater accumulated channel energy from the first accumulated channel energy and the second accumulated channel energy; and
 - 28 identifying the modulation format of the data frame as corresponding to the greater accumulated channel energy.

- 1 2. (Currently Amended) The method of claim 1, wherein:
 - 2 processing the training sequence(s) assuming the first modulation format to produce the first
 - 3 channel energy ~~further comprises derotating the symbols further includes derotating the symbols~~ within
 - 4 the training sequence; and
 - 5 processing the training sequence(s) assuming the second modulation format to produce the
 - 6 second channel energy ~~further comprises derotating the symbols further includes derotating the symbols~~ within
 - 7 the training sequence.
- 1 3. (Original) The method of claim 2, wherein:
 - 2 the first modulation format is GMSK; and
 - 3 the second modulation format is 8PSK.
- 1 4. (Previously Presented) The method of claim 1, wherein extracting the training sequence further
2 comprises:
 - 3 processing the first RF burst to produce a baseband signal; and
 - 4 extracting the training sequence from the baseband signal.
5. (Cancelled)
- 1 6. (Currently Amended) The method of claim 1, further comprising:
 - 2 receiving a ~~subsequent RF burst further subsequent RF burst~~ within the data frame from the
 - 3 servicing base station, wherein the ~~subsequent RF burst further subsequent RF burst~~ carries a plurality of
 - 4 modulated symbols;
 - 5 identifying a modulation format of the ~~subsequent RF burst further subsequent RF burst~~ based on
 - 6 accumulated channel energies;
 - 7 comparing the identified modulation format of the ~~subsequent RF burst further subsequent RF~~
8 ~~burst to the identified modulation format of previous RF bursts of the data frame;~~
 - 9 demodulating the ~~subsequent RF burst further subsequent RF burst~~ according to the identified
 - 10 modulation format of ~~subsequent RF burst further subsequent RF burst~~ and
 - 11 discarding the prior RF bursts of the data frame when the identified modulation format of the
 - 12 ~~subsequent RF burst further subsequent RF burst~~ compares unfavorably to the identified modulation
 - 13 format of prior RF bursts.

Claims 7-37. (Cancelled)